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1	INZZ	(file ADJ management).TI.	unrestricted	171	<a href="#">show titles</a>
2	INZZ	1 AND file NEAR metadata	unrestricted	0	-
3	INZZ	1 AND file WITH metadata	unrestricted	0	-
4	INZZ	1 AND (folder OR folders) WITH metadata	unrestricted	0	-
5	INZZ	(file OR files OR folder OR folders) WITH metadata	unrestricted	183	<a href="#">show titles</a>
6	INZZ	5 AND version\$	unrestricted	7	<a href="#">show titles</a>
7	INZZ	5 AND (file OR files OR folder OR folders) WITH volume	unrestricted	1	<a href="#">show titles</a>

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- ☒ Inspec thesaurus - browse headings R-Z
- ☒ Inspec thesaurus - enter a term
- ☒ Classification codes A: Physics, 0-1
- ☒ Classification codes A: Physics, 2-3
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- [1 Metadata efficiency in versioning file systems.](#)
- [2 SVG linearization and accessibility.](#)
- [3 The Roma personal metadata service.](#)
- [4 The Roma personal metadata service.](#)
- [5 Version management and recoverability for large object data.](#)
- [6 Managing images with Image BOSS.](#)
- [7 The Energy Intelligence Information System.](#)

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**Inspec - 1969 to date (INZZ)**

### Accession number & update

0008160093 20051201.

### Title

**Metadata efficiency in versioning file systems.**

### Conference information

2nd USENIX Conference on **File** and Storage Technologies (FAST '03), San Francisco, CA, USA, 31 March-2 April 2003.

### Source

Proceedings of the 2nd USENIX Conference on **File** and Storage Technologies (FAST'03), 2003, p. 43-58, 45 refs, pp. 257.

Publisher: USENIX Assoc, Berkeley, CA, USA.

### Author(s)

[Soules-C-A-N](#), [Goodson-G-R](#), [Strunk-J-D](#), [Ganger-G-R](#).

### Author affiliation






Soules, C.A.N., Goodson, G.R., Strunk, J.D., Ganger, G.R., Carnegie Mellon Univ., Pittsburgh, PA, USA.

### Abstract

**Versioning file** systems retain earlier **versions** of modified **files**, allowing recovery from user mistakes or system corruption. Unfortunately, conventional **versioning** systems do not efficiently record large numbers of **versions**. In particular, **versioned metadata** can consume as much space as **versioned** data. This paper examines two space-efficient **metadata** structures for **versioning file** systems and describes their integration into the comprehensive **versioning file** system (CVFS), which keeps all **versions** of all **files**. Journal-based **metadata** encodes each **metadata version** into a single journal entry; CVFS uses this structure for inodes and indirect blocks, reducing the associated space requirements by 80%. Multiversion b-trees extend each entry's key with a timestamp and keep current and historical entries in a single tree; CVFS uses this structure for directories, reducing the associated space requirements by 99%. Similar space reductions are predicted via trace analysis for other **versioning** strategies (e.g., on-close **versioning**). Experiments with CVFS verify that its current-**version** performance is similar to that of nonversioning **file** systems while reducing overall space

needed for history data by a factor of two. Although access to historical **versions** is slower than conventional **versioning** systems, checkpointing is shown to mitigate and bound this effect.

**Descriptors**

 DISTRIBUTED-DATABASES;  META-DATA;  SECURITY-OF-DATA;  SYSTEM-RECOVERY;  
 TREE-DATA-STRUCTURES.

**Classification codes**

C6160B Distributed-databases\*;  
C6120 File-organisation;  
C6130S Data-security.

**Keywords**

system-corruption; **space-efficient-metadata-structures**; **versioning- file-system**; **journal-based-metadata**; multiversion-b-trees; checkpointing.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Conference-proceedings.

**Publication year**

2003.

**Publication date**

20030000.

**Edition**

2004043.

**Copyright statement**

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☒ **document 2 of 7** Order Document

**Inspec - 1969 to date (INZZ)**

**Accession number & update**

0007575297 20051201.

**Title**

SVG linearization and accessibility.

**Source**

Computer Graphics Forum, {Comput-Graph-Forum-UK}, Dec. 2002, vol. 21, no. 4, p. 777-86, 20 refs, CODEN: CGFODY, ISSN: 0167-7055.

Publisher: Blackwell Publishers for Eurographics Assoc, UK.

**Author(s)**

Herman-I, Dardailier-D.








**Author affiliation**

Herman, I., World Wide Web Consortium, Amsterdam, Netherlands.

**Abstract**

The usage of SVG (scaleable vector graphics) creates new possibilities as well as new challenges for the accessibility of Web sites. This paper presents a **metadata** vocabulary to describe the information content of an SVG **file** geared towards accessibility. When used with a suitable tool, this **metadata** description can help in generating a textual ("linear") **version** of the content, which can be used for users with disabilities or with non-visual devices. Although this paper concentrates on SVG, i.e. graphics on the Web, the **metadata** approach and vocabulary presented can be applied in relation to other technologies, too. Indeed, accessibility issues have a much wider significance, and have an effect on areas like CAD, cartography, or information visualization. Hence, the experiences of the work presented may also be useful for practitioners in other areas.

**Descriptors**

 CAD;  CARTOGRAPHY;  COMPUTER-GRAPHICS;  HANDICAPPED-AIDS;  META-DATA;  
 VOCABULARY;  WEB-SITES.

**Classification codes**

C7210N Information-networks\*;  
C7850 Computer-assistance-for-persons-with-handicaps;  
C6130B Graphics-techniques;  
E1400 Design\*.

**Keywords**

scaleable-vector-graphics-linearization; Web-site-accessibility; **metadata-vocabulary**; information-content; **SVG-file**; textual-content- **version**; disabled-users; nonvisual-devices; CAD; cartography; information-visualization.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Journal-paper.

**Availability**

SICI: 0167-7055(200212)21:4L.777:LA; 1-T.

**Publication year**

2002.

**Publication date**

20021200.

**Edition**

2003014.

**Copyright statement**

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☒ **document 3 of 7** [Order Document](#)

**Inspec - 1969 to date (INZZ)****Accession number & update**

0007458436 20051201.

**Title**

The Roma personal **metadata** service.

**Source**

Mobile Networks and Applications, {Mobile-Netw-Appl-Netherlands}, 2002, vol. 7, no. 5, p. 407-18, 23 refs, CODEN: JSTAFL, ISSN: 1383-469X.  
Publisher: Kluwer; ACM, Netherlands.

**Author(s)**

Swierk-E, Kiciman-E, Williams-N-C, Fukushima-T, Yoshida-H, Laviano-V, Baker-M.

**Author affiliation**






Swierk, E., Kiciman, E., Williams, N.C., Fukushima, T., Yoshida, H., Laviano, V., Baker, M., Dept. of Comput. Sci., Stanford Univ., CA.

**Abstract**

People now have available to them a diversity of digital storage facilities, including laptops, cellular telephone address books, handheld devices, desktop computers and Web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date **version** of any document in a user's personal **file** space is available to him on the storage facility he is currently using. We introduce the Roma personal **metadata** service to make it easier to locate current **versions** of personal **files** and ensure their

availability across different repositories. This centralized service stores information about each of a user's **files**, such as name, location, timestamp and keywords, on behalf of mobility-aware applications. Separating out these **metadata** from the data repositories makes it practical to keep the **metadata** store on a highly available, portable device. In this paper we describe the design requirements, architecture and current prototype implementation of Roma.

**Descriptors**

 DISTRIBUTED-DATABASES;  FILE-ORGANISATION;  META-DATA;  MOBILE-COMPUTING;  
 SYNCHRONISATION.

**Classification codes**

C6160B Distributed-databases\*;  
C5620 Computer-networks-and-techniques;  
C6120 File-organisation.

**Keywords**

**Roma-personal-metadata-service**; personal-data-repositories; up-to- **date-version**; **personal-files**; **file-timestamp**; **file-keywords**; mobility- aware-applications; **file-name**; **file-location**.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Journal-paper.

**Availability**

SICI: 1383-469X(2002)7:5L:407:RPMS; 1-J.

**Publication year**

2002.

**Publication date**

20020000.

**Edition**

2002047.

**Copyright statement**

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 **document 4 of 7** Order Document

**Inspec - 1969 to date (INZZ)****Accession number & update**

0006806475 20051201.

**Title**

The Roma personal **metadata** service.

**Conference information**

Proceedings Third IEEE Workshop on Mobile Computing Systems and Applications, Los Alamitos, CA, USA, 7-8 Dec. 2000.

Sponsor(s): IEEE Comput. Soc. Tech. Committee on the Internet (TCI); IEEE Comput. Soc. Tech. Committee on Oper. Syst. (TCOS); IBM; Sony Electron; ACM Sigmobility; Usenix Assoc.

**Source**

Proceedings Third IEEE Workshop on Mobile Computing Systems and Applications, 2000, p. 107-16, 17 refs, pp. ix+183, ISBN: 0-7695-0816-2.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA.

**Author(s)**

Swierk-E, Kiciman-E, Laviano-V, Baker-M.






**Author affiliation**

Swierk, E., Kiciman, E., Laviano, V., Baker, M., Dept. of Comput. Sci., Stanford Univ., CA.

**Abstract**

People now have available to them a diversity of digital storage devices, including palmtops, cell phone address books, laptops, desktop computers and Web-based services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date **version** of any document is available to the user on the storage device he/she is currently using. We introduce the Roma personal **metadata** service to make it easier to locate current **file versions** and ensure their availability across different repositories. This centralized service stores information about each of a user's **files**, such as its name, location, timestamp and keywords, on behalf of mobility-aware applications. Separating out these **metadata** from the data repositories makes it practical to keep the **metadata** store on a highly available, portable device. In this paper, we describe the design requirements, architecture and current prototype implementation of Roma.

**Descriptors**

 CONFIGURATION-MANAGEMENT;  META-DATA;  MOBILE-COMPUTING;  PERSONAL-  
INFORMATION-SYSTEMS;  REPLICATED-DATABASES.

**Classification codes**

C6160B Distributed-databases\*;  
C7830 Home-computing;  
C6110B Software-engineering-techniques.

**Keywords**

**Roma-personal-metadata-service**; digital-storage-devices; personal- data-repositories; **up-to-date-document-version**; **current-file-versions**; **file-availability**; centralized-service; mobility-aware-applications; highly-available-portable-device; design-requirements; system-architecture; prototype-implementation.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Conference-proceedings.

**Availability**

CCCC: 0 7695 0816 2/2000/\$10.00.

**Digital object identifier**

10.1109/MCSA.2000.895386.

**Publication year**

2000.

**Publication date**

20000000.

**Edition**

2001001.

**Copyright statement**

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**Inspec - 1969 to date (INZZ)**

**Accession number & update**

0006034326 20051201.

**Title**

**Version** management and recoverability for large object data.

**Conference information**

Proceedings of 1998 International Workshop on Multimedia Database Management, Dayton, OH, USA, 5-7 Aug. 1998.

Sponsor(s): IEEE Comput. Soc. Tech. Committee on Multimedia Comput; Inf. Technol. Res. Inst. (ITRI); Wright State Univ., Dayton, Ohio; IEEE Comput. Soc. Tech. Committee on Data Eng.

**Source**

Proceedings International Workshop on Multi-Media Database Management Systems (Cat. No.98TB100249), 1998, p. 12-19, 14 refs, pp. ix+198, ISBN: 0-8186-8676-6.  
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA.

**Author(s)**

Burns-R, Narang-I.





**Author affiliation**

Burns, R., Narang, I., IBM Almaden Res. Center, San Jose, CA, USA.

**Abstract**

Most applications that access large data objects do so through **file** systems, but **file** systems provide an incomplete solution, as they maintain insufficient **metadata** and do not provide general purpose query engine. Storing large objects in a database addresses these problems, but, for applications that need to update object data, databases are inefficient as they do not provide direct access to data. Additionally, databases often relax the integrity and consistency constraints for large objects, as it the case with objects stored through the Binary Large Object (BLOB) data type. These shortcomings are exacerbated by multiple users or applications that wish to access large objects concurrently. We describe an architecture, based on the Datalink data type, in which large objects in a database are continuously available for read access and can be read and written through a **file** system interface. Additionally this system does not relax **version** management, consistency and recoverability guarantees, as with the BLOB data type.

**Descriptors**

 CONCURRENCY-CONTROL;  CONFIGURATION-MANAGEMENT;  OBJECT-ORIENTED-DATABASES;  VERY-LARGE-DATABASES.

**Classification codes**

C6160J Object-oriented-databases\*.

**Keywords**

large-object-data; **version-management**; recoverability; large-data-objects; **file-systems**; **metadata**; general-purpose-query-engine; integrity; consistency-constraints; Binary-Large-Object-data-type; Datalink-data-type.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Conference-proceedings.

**Availability**

CCCC: 0 8186 8676 6/98/\$10.00.

**Digital object identifier**

10.1109/MMDBMS.1998.709474.

**Publication year**

1998.

**Publication date**

19980000.

**Edition**

1998038.

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**Inspec - 1969 to date (INZZ)**

**Accession number & update**

0005653119 20051201.

**Title**

Managing images with Image BOSS.

**Conference information**

Medical Imaging 1997: Image Display, Newport Beach, CA, USA, 23-25 Feb. 1997.

Sponsor(s): SPIE.

**Source**

Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1997, vol. 3031, p. 458-68, 11 refs, CODEN: PSISDG, ISSN: 0277-786X.

Publisher: SPIE-Int. Soc. Opt. Eng, USA.

**Author(s)**

Augustine-K-E, Stacy-M-C, Robb-R-A.

**Author affiliation**

Augustine, K.E., Stacy, M.C., Robb, R.A., Biomed. Imaging Res., Mayo Found., Rochester, MN, USA.

**Abstract**

Biomedical researchers require effective tools to manage large numbers of 2-D and 3-D images. Image BOSS is designed to provide a database management system that is easy to use, flexible enough to support varied research disciplines, and powerful enough to handle large sets of images. Researchers organize and select images based on research topics, image **metadata**, and thumbnails of the images. Within this system, image information is captured from existing images in a Unix-based filesystem, stored in an object oriented database, and presented to the user in a familiar laboratory notebook metaphor. Built upon a commercial object data manager, Image BOSS captures image **metadata** from the **file-system** through a scavenging program. The image **files** remain intact in the filesystem, permitting ordinary access by any other image software. Through the novel use of lab notebook windows, the user is presented with a collection of image thumbnails representing the contents of the filesystem. Based upon an object oriented **version** of AVW, a comprehensive library of image processing and analysis functions, a wealth of image processing and visualization algorithms are available in the system to build intelligent selection mechanisms. This image database system is being used in preliminary evaluation for several projects at Mayo Foundation. In addition, Image BOSS has been integrated with the ANALYZE/sub AVW/ software package providing researchers with "Drag-and-Drop" features between their database and image processing/analysis functions.

**Descriptors**

☞ MEDICAL-IMAGE-PROCESSING; ☞ MEDICAL-INFORMATION-SYSTEMS; ☞ OBJECT-ORIENTED-DATABASES; ☞ VISUAL-DATABASES.

**Classification codes**

C7140 Medical-administration\*;

C5260B Computer-vision-and-image-processing-techniques;

C7330 Biology-and-medical-computing;

C6160J Object-oriented-databases;

C6160S Spatial-and-pictorial-databases.

**Keywords**

Image-BOSS; database-management-system; research-topics; image- **metadata**; thumbnails; **Unix-based-file-system**; object-oriented- database; laboratory-notebook-metaphor; commercial-object-data-manager.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Conference-proceedings; Journal-paper.

**Availability**

SICI: 0277-786X(1997)3031L:458:MIWI; 1-0.

CCCC: 0277-786X/97/\$10.00.

**Publication year**

1997.

**Publication date**

19970000.

**Edition**

1997031.

**Copyright statement**

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**Inspec - 1969 to date (INZZ)**

**Accession number & update**

0005044958 20051201.

**Title**

The Energy Intelligence Information System.

**Conference information**

Proceedings Ninth Annual Symposium on Geographic Information Systems, Vancouver, BC, Canada, 27-30 March 1995.

**Source**

Ninth Annual Symposium on Geographic Information Systems in Natural Resources Management. Symposium Proceedings, 1995, vol.2, p. 977-82 vol.2, 7 refs, pp. 2 vol.1015. Publisher: GIS World, Fort Collins, CO, USA.

**Author(s)**

Malczynski-L, Frank-D.









**Author affiliation**

Malczynski, L., Frank, D., Energy Policy & Planning, Sandia Nat. Labs., Albuquerque, NM, USA.

**Abstract**

Sandia National Laboratories is developing a GIS-based Energy Intelligence Information system (EIIS) to help analysts at The Office of Energy Intelligence of the Department of Energy. EIIS is unique in that it has a worldwide scope. EIIS was built to access any point on the globe or to move directly to a site, facility, or city. EIIS provides imagery, diagrams, maps, and extensive tabular information on all of its facilities. The EIIS beta **version** 1.0 was delivered in March 1994 and concentrates on commercial reactors, **version** 1.2, delivered 8-94, includes other nuclear fuel cycle sites and release 1.3, delivered in March 1995 includes an improved interface, **version** 1.4 will include waste and disposal information. The system runs on a SUN workstation using ARC/INFO and Informatics as the RDBMS. The map system relies upon the Digital Chart of the World (DCW) (scale 1:1,000,000) by ESRI from Defense Mapping Agency maps. The DCW is a digital map presenting 17 layers of information. **Metadata**, or data about data has typically dealt with descriptions at the aggregation level of entity or **file** and consists of sources and formatting standards. In many classified environments (this discussion may be equally applicable to other environments, such as medicine) **metadata** is required at a micro level, the attribute or field level. EIIS will soon have the capability to address statistical tools through a seamless interface.

**Descriptors**

 CARTOGRAPHY;  DIAGRAMS;  GEOGRAPHIC-INFORMATION-SYSTEMS;  NUCLEAR-POWER-STATIONS;  POWER-ENGINEERING-COMPUTING;  RELATIONAL-DATABASES;  TOWN-AND-COUNTRY-PLANNING;  VISUAL-DATABASES.

**Classification codes**

C7840 Geography-and-cartography-computing\*;  
C7130 Public-administration;  
C6160D Relational-databases;  
C6160S Spatial-and-pictorial-databases.

**Keywords**

Energy-Intelligence-Information-System; geographic-information-systems; Department-of-Energy; EIIS; diagrams; maps; imagery; tabular-information; commercial-reactors; nuclear-fuel-cycle-sites; waste-disposal-information; SUN-workstation; ARC/INFO; Informatics; RDBMS; relational-database; Digital-Chart-of-the-World; Defense-Mapping-Agency-map; **metadata**; formatting-standards; statistical-tools.

**Treatment codes**

A Application;  
P Practical.

**Language**

English.



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<input type="button" value="order"/>		

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**Inspec - 1969 to date (INZZ)**

### Accession number & update

0008597671 20051201.

### Title

Virtual library of multilingual multicontents scientific journals.

### Conference information

The 8th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, FL, USA, 18-21 July 2004.

### Source

The 8th World Multi-Conference on Systemics, Cybernetics and Informatics, 2004, Vol. 7, p. 409-13 Vol. 7, 14 refs, pp. 17 vol. (viii+6722).  
Publisher: IIIS, Orlando, FL, USA.

### Author(s)

Fellah-M, Chaibi-A-H, Ahmed-M-B.

Editor(s): Callaos-N, Horimoto-K, Chen-J, Kit-Sze-Chan-A.

### Author affiliation

Fellah, M., Chaibi, A.H., Ahmed, M.B., Univ. of La Manouba, Tunis, Tunisia.

### Abstract

The work presented in this paper is tackling the document analysis and recognition problem, in line with a virtual library project. It presents the design and the implementation of a software platform allowing to place at the disposal of end users of a virtual library, automatic processing to display and retrieve, remotely and locally, dematerialized documents from databases made up of multilingual and multicontents scientific journals. The prototype was called BVMuLS. After a chain of digitalization, conversion and compression, the scanned documents are put at the format DjVu and the articles are safeguarded with format PDF. The whole is then stored in a MySQL database. The outline journal is used as index. The contents will be presented at the user as an XML document, allowing a lot of services: consultation, printing and safeguard locally. With this intention, we initially start with the segmentation of the image of the contents in order to extract the area where the text of the contents is. Once the area recognized, we apply a tagging technique so to find the various identifying fields of the articles, namely: the title, the author, the translator and the number of pages. In order to generate the XML file corresponding to these contents, other **metadata**, such as the name of the review, the **volume** of the review, the date of publication, etc, are added with those referring to the various articles published in the review.

### Descriptors

CITATION-ANALYSIS; CONTENT-MANAGEMENT; DIGITAL-LIBRARIES; INDEXING;  
 LIBRARY-AUTOMATION; LINGUISTICS; META-DATA; XML.

### Classification codes

## WEST Search History





DATE: Monday, February 06, 2006

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	<i>DB=USPT; PLUR=NO; OP=OR</i>		
<input type="checkbox"/>	L31	l30 and (version near (file or files or folder or folders))	21
<input type="checkbox"/>	L30	(l26 or l27 or l28 or l29) and (volume near (file or files or folder or folders))	170
<input type="checkbox"/>	L29	707/202-205.ccls.	2823
<input type="checkbox"/>	L28	707/202-205.ccls.	2823
<input type="checkbox"/>	L27	707/100.ccls.	1900
<input type="checkbox"/>	L26	707/1-2.ccls.	3512
<input type="checkbox"/>	L25	L24 and hash\$	15
<input type="checkbox"/>	L24	((file or files or folder or folders) near manag\$.ti.	128
<input type="checkbox"/>	L23	L22 and hash\$	0
<input type="checkbox"/>	L22	L10 and (volume near (file or files or folder or folders))	12
<input type="checkbox"/>	L21	L20 and hash\$	0
<input type="checkbox"/>	L20	L2 and (volume near (file or files or folder or folders))	8
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<input type="checkbox"/>	L18	L17 and ((metadata or meta-data or (meta adj1 data)) near (file or files or folder or folders))	157
<input type="checkbox"/>	L17	(file or files or folder or folders).ti.	6571
<input type="checkbox"/>	L16	L15 and (metadata or (meta adj1 data) or meta-data)	1
<input type="checkbox"/>	L15	L14 and (file or files or folder or folders)	1
<input type="checkbox"/>	L14	L1 and (metadata or (meta adj1 data) or meta-data).ti.	1
<input type="checkbox"/>	L13	(L8 or L10) and hash\$	11
<input type="checkbox"/>	L12	L2 and (metadata or (meta adj1 data) or meta-data)	3
<input type="checkbox"/>	L11	L10 and (metadata or (meta adj1 data) or meta-data)	8
<input type="checkbox"/>	L10	L1 and (file or files or folder or folders).ab.	224
<input type="checkbox"/>	L9	L8 and (metadata or (meta adj1 data) or meta-data)	0
<input type="checkbox"/>	L8	L2 and (volume near (file or files or folder or folders))	8
<input type="checkbox"/>	L7	L6 and (metadata or (meta adj1 data) or meta-data)	1
<input type="checkbox"/>	L6	L4 and L5	1
<input type="checkbox"/>	L5	(L1 or L3) and ((metadata or meta-data or (meta adj1 data)) near (file or files or folder or folders))	5
<input type="checkbox"/>	L4	(L1 or L3) and (volume near (file or files or folder or folders))	12
<input type="checkbox"/>	L3	L2 and manag\$.ti.	10

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<input type="checkbox"/>	L2	L1 and (file or files or folder or folders).ti.	131
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END OF SEARCH HISTORY